

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Cancelled).
2. (Previously presented) The scrubber element of claim 8, wherein said body is constructed at least partially of said sorbent material.
3. (Previously presented) The scrubber element of claim 8, wherein said body is constructed entirely of said sorbent material.
4. (Previously presented) The scrubber element of claim 8, wherein said body is extruded from a mixture of said sorbent material and a binder.
5. (Previously presented) The scrubber element of claim 8, wherein said sorbent material comprises an activated carbon powder.
6. (Cancelled).

7. (Previously presented) The scrubber element of claim 8, wherein said at least one heating element comprises at least a portion of said elongate body, said portion being configured for conducting current therethrough.

8. (Previously presented) A scrubber element, comprising:
an elongate body having a first end and a second end, said body defining a plurality of passageways for the flow of fluid therethrough from said first end to said second end, said plurality of passageways being one of coated with and constructed of a sorbent material, said sorbent material being adsorptive of hydrocarbons; and
at least one heating element associated with said body, wherein said at least one heating element comprises a resistive heating wire.

9. (Cancelled).

10. (Previously presented) The hydrocarbon emissions scrubber of claim 23, wherein each said at least two scrubber elements are constructed at least partially from or coated with a sorbent material, said sorbent material being adsorptive of hydrocarbons.

11. (Previously presented) The hydrocarbon emissions scrubber of claim 23, wherein said body of each said at least two scrubber elements include a first end and a second end, said body further defining a plurality of elongate passageways for the flow of fluid therethrough from said first end to said second end.

12. (Original) The hydrocarbon emissions scrubber of claim 11, wherein said passageways are at least one of coated with or constructed at least partially from a sorbent material that is adsorptive of hydrocarbons.

13. (Previously presented) The hydrocarbon emissions scrubber of claim 23, wherein said at least two scrubber elements are extruded from a mixture of an activated carbon powder and a binder.

14. (Previously presented) The hydrocarbon emissions scrubber of claim 23, further comprising sealing means, said sealing means configured for directing the flow of fluid within said channel through at least one of said scrubber elements and for precluding a flow of fluid within said channel external to said at least one of said scrubber elements.

15. (Previously presented) The hydrocarbon emissions scrubber of claim 14, wherein said sealing means comprise at least one resiliently deformable seal, each of said at least one seal being disposed around a periphery of said at least one of said scrubber elements and sealingly engaging each of said periphery of said at least one of said scrubber elements and an inside surface of said housing.

16. (Previously presented) The hydrocarbon emissions scrubber of claim 14, wherein said sealing means comprise at least one face seal, each of said at least

one face seal being disposed intermediate a respective end of said at least one of said scrubber elements and a corresponding end of said housing.

17. (Previously presented) The hydrocarbon emissions scrubber of claim 23, further comprising at least one heating element disposed within said housing.

18. (Original) The hydrocarbon emissions scrubber of claim 17, wherein said at least one heating element comprises a ceramic heating element.

19. (Original) The hydrocarbon emissions scrubber of claim 17, wherein said at least one heating element comprises at least a portion of said body, said portion being configured for conducting electrical current therethrough.

20. (Original) The hydrocarbon emissions scrubber of claim 17, further comprising an electrical connector, said electrical connector being at least one of integral with and attached to said housing, said electrical connector being electrically connected to said at least one heating element.

21. (Cancelled).

22. (Cancelled).

23. (Currently amended) A hydrocarbon emissions scrubber, comprising:
an elongate housing, said housing defining a channel for a flow of fluid
through said housing; ~~and~~
at least two scrubber elements each having an elongate body, each of said at
least two scrubber elements being disposed within said housing and in fluid
communication with said channel, wherein each of said at least two scrubber
elements are disposed in series relative to a flow of air through said channel such
that air flows sequentially through said at least two scrubber elements for filtering
bleed emissions from the flow of fluid through said channel; and
at least one foam flow diffuser, each of said at least one flow diffuser being
disposed within said housing at a respective end of said body.

24. (Cancelled).

25. (Cancelled).

26. (Previously presented) The evaporative emissions assembly of claim 34,
wherein said body is constructed at least partially of said sorbent material.

27. (Previously presented) The evaporative emissions assembly of claim 34,
wherein said body is constructed entirely of said sorbent material.

28. (Previously presented) The evaporative emissions assembly of claim 34, wherein said body is extruded from a mixture of said sorbent material and a binder.

29. (Previously presented) The evaporative emissions assembly of claim 34, wherein said sorbent material comprises an activated carbon powder.

30. (Previously presented) The evaporative emissions assembly of claim 34, further comprising at least one heating element disposed within said housing.

31. (Original) The evaporative emissions assembly of claim 30, wherein said at least one heating element comprises a ceramic heating element.

32. (Original) The evaporative emissions assembly of claim 30, wherein said at least one heating element comprises at least a portion of said body, said portion being configured to conduct electrical current.

33. (Original) The evaporative emissions assembly of claim 30, further comprising an electrical connector being at least one of integral with and attached to said housing, said electrical connector being electrically connected to said at least one heating element.

34. (Currently amended) An evaporative emissions assembly, comprising:

a housing, said housing defining a purge port, a vent port and a vapor inlet port, sorbent material being disposed within said housing, each of said purge port, said vent port, and said vapor inlet port being in fluid communication with said sorbent media;

a scrubber element disposed within said housing, said scrubber element in fluid communication with said vent port, said scrubber element being disposed intermediate said vent port and said sorbent material such that a flow of air into and out of said vent port flows through said scrubber element, wherein said scrubber element includes an elongate body having a first and second end, said body defining a plurality of passageways for the flow of fluid therethrough from said first end to said second end, said plurality of passageways being one of coated with and constructed of a sorbent material, said sorbent material being adsorptive of hydrocarbons; and

at least one foam flow diffuser, each of said at least one flow diffuser being disposed within said housing ~~proximate to~~ at a respective end of said body of said scrubber element.

35. (Currently amended) An evaporative emissions assembly, comprising:

an evaporative canister, said evaporative canister including a first housing defining a purge port, a vent port and a vapor inlet port, sorbent material being disposed within said evaporative canister, each of said purge port, said vent port, and said vapor inlet port being in fluid communication with said sorbent media;

a hydrocarbon emissions scrubber including a second housing and a scrubber element, said second housing defining a channel for the flow of fluid therethrough, said scrubber element being disposed within said second housing and in fluid communication with said channel, said scrubber element configured for filtering bleed emissions from fluid flowing through said channel; and

a conduit fluidly interconnecting said channel of said second housing and said vent port of said evaporative canister.

36. (Original) The evaporative emissions assembly of claim 35, wherein said scrubber element includes an elongate body, said body defining a plurality of passageways for the flow of fluid therethrough, said plurality of passageways being one of coated with and constructed of a sorbent material, said sorbent material being adsorptive of hydrocarbons.

37. (Original) The evaporative emissions assembly of claim 36, wherein said body is constructed at least partially of said sorbent material.

38. (Original) The evaporative emissions assembly of claim 36, wherein said body is constructed entirely of said sorbent material.

39. (Original) The evaporative emissions assembly of claim 36, wherein said body is extruded from a mixture of said sorbent material and a binder.

40. (Original) The evaporative emissions assembly of claim 36, wherein said sorbent material comprises an activated carbon powder.

41. (Currently amended) The evaporative emissions assembly of claim 36, further comprising at least one heating element disposed within said second housing of said hydrocarbon emissions scrubber.

42. (Original) The evaporative emissions assembly of claim 41, wherein said at least one heating element comprises at least one ceramic heating element.

43. (Original) The evaporative emissions assembly of claim 41, wherein said at least one heating element comprises at least a portion of said body, said portion being configured for conducting electrical current.

44. (Currently amended) The evaporative emissions assembly of claim 41, further comprising an electrical connector being at least one of integral with and attached to said second housing, said electrical connector being electrically connected to said at least one heating element.

45. (Original) The evaporative emissions assembly of claim 36, further comprising at least one flow diffuser, each of said at least one flow diffuser being disposed within said channel and proximate to a respective end of said body.

46. (Currently amended) An evaporative emissions control system, comprising:

an evaporative canister including a first housing defining a vent port; and

a hydrocarbon emissions scrubber including a second housing defining a channel for a flow of fluid therethrough, said channel being in fluid communication with said vent port, a scrubber element disposed in fluid communication with said channel, said scrubber element configured for filtering bleed emissions from the flow of fluid through said channel.

47. (Currently amended) A motor vehicle having an evaporative emissions control system, said evaporative emissions control system comprising:

an evaporative canister including a first housing defining a vent port; and

a hydrocarbon emissions scrubber including a second housing defining a channel for a flow of fluid therethrough, said channel being in fluid communication with said vent port, a scrubber element disposed in fluid communication with said channel, said scrubber element configured for filtering bleed emissions from the flow of fluid through said channel.

48. (New) A hydrocarbon emissions scrubber, comprising:

an elongate housing, said housing defining a channel for a flow of fluid through said housing;

at least two scrubber elements each having an elongate body, each of said at least two scrubber elements being disposed within said housing and in fluid

communication with said channel, wherein each of said at least two scrubber elements are disposed in series relative to a flow of air through said channel such that air flows sequentially through said at least two scrubber elements for filtering bleed emissions from the flow of fluid through said channel; and

at least one flow diffuser, each of said at least one flow diffuser being disposed within said housing at a respective end of said body, wherein said at least one flow diffuser is disposed in contact with at least one of said scrubber elements.

49. (New) An evaporative emissions assembly, comprising:

a housing, said housing defining a purge port, a vent port and a vapor inlet port, sorbent material being disposed within said housing, each of said purge port, said vent port, and said vapor inlet port being in fluid communication with said sorbent media;

a scrubber element disposed within said housing, said scrubber element in fluid communication with said vent port, said scrubber element being disposed intermediate said vent port and said sorbent material such that a flow of air into and out of said vent port flows through said scrubber element, wherein said scrubber element includes an elongate body having a first and second end, said body defining a plurality of passageways for the flow of fluid therethrough from said first end to said second end, said plurality of passageways being one of coated with and constructed of a sorbent material, said sorbent material being adsorptive of hydrocarbons; and

at least one flow diffuser, each of said at least one flow diffuser being disposed within said housing at a respective end of said body of said scrubber element, wherein said at least one diffuser is disposed in contact with said scrubber element.